Amet Vikram

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Experience   4 years+

Rutgers University   **Sep 2024 – Present**

Graduate Research Assistant
- Analyzing optimized coresets for archetypal analysis to compute approximate convex hulls and evaluating the efficiency of training and retraining of machine learning algorithms. **[GitHub]**

Teaching Assistant – CS344 Design and Analysis of Algorithms
- Grading homework, projects, quizzes, exams, and other assignments.
- Providing constructive feedback to students on their work.
- Taking recitation lectures for clearing doubts and aiding students with problem solving.

Deutsche Bank

Associate Analyst
- Performed data analysis of over **600K** loss-making events and applied **clustering algorithms (K-Means, DBSCAN)** and **NLP algorithms (TF-IDF, BERT model)** to identify root causes and correlation among loss making events data and their linkages which helped the business to reduce investigation time by **30%**.
- Developed and deployed a **predictive dashboard** which improved data retrieval efficiency by **40%** in high volume production environment for business users and enabled a holistic view of Permitted Products within the organization, through **SQL query plan optimization** and implementing **indices in ElasticSearch and Logstash pipeline.**
- Developed and deployed a **new data model schema** for a third-party data producer (OPUS & CCO) and performed **data back-population** by executing multiple **SQL & Python scripts** to maintain data consistency across **100K** records. **[Biggest Team Delivery - 2024]**.
- Led end-to-end design and development of Criteria-Driven Approvals and Condition-Driven Products by implementing advanced **JPA Criteria API queries** and creating a highly **interactive and responsive UI dashboard using ReactJS**, improving overall response time by **50%. [Biggest Team Delivery - 2023]**.

IBM

Software Engineer Intern
- Successfully integrated Apple's social login identity feature, **"Sign in with Apple REST API 1.0"**, into the **IBM Cloud Identity Connect** software.
- Developed comprehensive **unit tests for the Health Check API**, ensuring reliable performance across various microservices within the IBM Cloud Identity Connect platform and generated detailed **code coverage reports** to identify untested code paths and improve overall test coverage.

Core Skills

Frameworks	Numpy, Scipy, Gurobi, Pandas, Matplotlib, Tensorflow, PyTorch, Scikit-learn, Apache Spark, Jupyter, IPython	**Languages**	Python, C++, R, Scala, Java, Typescript
		Database	Oracle SQL, MongoDB
		Cloud	GCP, GKE
Technologies	Microservices, Exploratory Data Analysis, OAuth, Veracode, LDAP	**OS**	Debian, Ubuntu, Windows, Docker
		Tools	Git, Neovim, Latex, Microsoft Excel

Education

Master of Science, Computer Engineering   **Jul 2024 – Present**
Rutgers University - New Brunswick
Relevant Coursework: Deep Learning, Convex Optimization, Machine Learning for Engineers

Master of Science, Statistics   **Jul 2024 – Present**
Rutgers University - New Brunswick
Relevant Coursework: Applied Multivariate Analysis, Statistical Inference, Linear Regression Analysis, Methods and Theory of Probability

Bachelor of Engineering, Computer Science
B.I.T.S Pilani University, India
Relevant Coursework:Data Structure and Algorithms, Design and Analysis of Algorithms, Discrete Mathematics, Software Architecture

Academic Projects

Object Localization in Image | Python, Keras, Pandas, Matplotlib, Numpy, Pillow | **[GitHub]**
Creating a Linked-Data enabled smart client | Python, Flask, FastAPI, Docker, Redis | **[GitHub]**
Reinforcement Learning Model for solving CartPole-v1 problem | Python, Tensorflow, Numpy, Matplotlib, OpenAI Gym | **[GitHub]**

Awards/Achievements

- DB Recognition Award – For exemplary performance and great contribution in a quarter.
- Recognized in RFT Success Story for Biggest Team Delivery 2024 and 2023.
- Ranked 58 in level 3 among 6000 teams in Flipkart GRiD – Te[a]ch The Machines — 2019
- Scored 370/450 (Top 0.22%) in BITSAT (Indian National Level Entrance Examination)